510(k) Supplementary Information K070118

1. Submitters Name and Address: Tympany, Inc.

2795 East Cottonwood Parkway, Suite 660

Salt Lake City, UT 84121 Phone: (801) 365-2800 FAX: (801) 365-3000

2. Contact Person & Phone:

Mr. Lex J. Pearce

Phone: (801) 365-2868 FAX: (801) 365-3005 lex@sonici.com

3. Date Prepared:

26 January 2007

4. Device Name / Classification:

Audiometer, Otoacoustic Emissions Analyzer (21

CFR 874.1050, Product Code EWO)

Auditory Impedance Tester, Tympanometer (21 CFR 874.1090, Product Codes ETY, NAS)

5. Proprietary / Trade Name:

Otogram CA3350

6. Device Description:

The Otogram CA3350 is a computer-controlled, audiometric instrument combining the functions of an Audiometer, Distortion Product Otoacoustic Emissions Analyzer and Auditory Acoustic Impedance/Admittance Tester (i.e. Tympanometer). The device is controlled through the use of ASCII commands transmitted over a standard RS-232 communication port. Control software is installed on the supplied PC.

7. Intended Use:

The Otogram is an auditory diagnostic instrument intended to administer, under supervision by a trained healthcare professional, a battery of diagnostic and screening procedures that include the following:

- 1) Pure tone air and bone conduction audiometry with automated masking
- 2) Speech recognition threshold with automated masking
- 3) Speech discrimination with automated masking
- 4) Tympanometry
- 5) Acoustic reflex threshold, both ipsilateral and contralateral
- 6) Distortion product otoacoustic emissions
- 7) Pure tone Stenger
- 8) Patient survey

The Otogram is indicated for use by trained healthcare professionals on both adult and pediatric subjects for measurement of audiometric parameters to identify and supply data to help diagnose hearing loss and ear disorders.

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8. Updated Substantial Equivalence Chart:

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,	The previous version of this chart appears in Exhibits 5, 1	
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Characteristic	Predicate	Predicate	Predicate	Tympany Otogram
	Impedance Audiometer	Otoacoustic Emissions	Tympany Otogram	CA3350
	Madsen Zodiac 901 K910247	Bio-Logic Auda K974076	Combined Device Impedance Audiometer	Combined Device Impedance Audiometer
			Otoacoustic Emissions	Otoacoustic Emissions
Intended Use:	To diagnose a variety of	To test cochlear function	To diagnose hearing and	To administer, under
	middle ear disorders using	by measuring otoacoustic	otologic disorders in the	supervision by a trained
	impedance and static	emissions.	middle-ear and total ear	healthcare professional, a
	pressure measurements		system, using audiometry,	battery of diagnostic and
	(i.e., tympanometry and		Tympanometry, and	screening procedures that
	acoustic reflex) in the ear		acoustic reflex. To test	include pure tone air and
	canal.		cochlear function and	bone conduction
			presence of otoacoustic	audiometry with automated
			emissions.	masking, speech
				recognition threshold with
				automated masking, speech
				discrimination with
				automated masking,
				tympanometry, acoustic
				reflex threshold (both
				ipsilateral and
				contralateral), distortion
				product emissions, pure
				tone Stenger and patient
				survey.

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9. Significant changes from predicate Tympany Otogram combination device:

- Expansion of intended use to include use by "trained healthcare professional" vs. "qualified/trained audiologist"
 - The indications for use stated in the 501(k) submission for the Bio-Logic AuDX device (K974076) indicates use by a "trained health care professional (for example an Audiologist)"
 - Training for the Otogram CA3350 includes a thorough review and training using the User Instruction Guide included in Exhibit 13 of the 510(k) submission.
 - Comparison testing with predicate devices was performed by a Hearing Instrument Specialist Intern someone who has been trained on the use of the equipment, but is not an audiologist. Test reports are contained in Exhibit 12 of the 510(k) submission.
- Different computer and improved design on various components and assemblies.
 - Computer specifications and design specifications are contained in Exhibit 11 of the 510(k) submission.

10. Safety and Effectiveness comparison to predicate devices:

The results of bench, user, and laboratory testing indicate that the new device is as safe and effective as the predicate devices.

11. Conclusion:

After analyzing both bench and user testing data, it is the conclusion of Tympany Inc. that the Tympany Otogram CA3350 is safe and effective as the predicate devices, has few technological differences, and has no new indications for use, thus rendering it substantially equivalent to the predicate devices.

DEPARTMENT OF HEALTH & HUMAN SERVICES



MAR 0 7 2007

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Tympany, Inc. c/o Lex J. Pearce 2795 East Cottonwood Parkway, Suite 660 Salt Lake City, UT 84121

Re: K070118

Trade/Device Name: Otogram CA3350 Regulation Number: 21 CFR 874.1050

Regulation Name: Audiometer Regulatory Class: Class II

Product Code: EWO, NAS, ETY

Dated: January 11, 2007 Received: January 12, 2007

Dear Mr. Pearce:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Malvina B. Eydelman, M.D.

Director

Division of Ophthalmic and Ear, Nose

iclemis, MV-

and Throat Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): <u>K070118</u>

Device Name: Otogram CA3350

Indications for Use:

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Prescription Use X (Part 21 CFR 801 Subpart D)	AND/OR	Over-The-Counter Use(21 CFR 807 Subpart C)
(PLEASE DO NOT WRITE NEEDED)	BELOW THIS LINE-	CONTINUE ON ANOTHER PAGE II
Concurrence	of CDRH, Office of D	evice Evaluation (ODE)
Should be Ve (Division Sign-Off) Division of Ophthalmic Ear,	Prescri	iption Use 1 CFR 801.109)

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Nose and Throat Devises